

DPD-1039-59

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10 February 1959

MEMORANDUM FOR: Deputy Director, Plans

SUBJECT : Malfunction Report, Period Ending 31 January 1959

1. Aircraft and Engines: The only malfunction in this area for the reporting period was the failure of an A. C. generator contained in the Communications portion below.

I. Communications

- A. Detachment C reports one failure of System III on a test flight due to the omission of a jumper wire in a junction box, which has been corrected. They also report a failure of a capstan drive motor in their "A" rack. The motor was replaced from existing stock.
- B. Detachment B reports the following Elint equipment malfunctions in Cork 5892:

- (1) Mission 4097 - KMARK-9 was 90% effective. Band 2 receiver was erratic due to locking on noise pulses generated in the camera control circuits.
- (2) Mission 8608 - Due to auto pilot trouble it was necessary to remove KMARK-26 "P" equipment, thus delaying Elint equipment testing until 4 hours before take-off. When the Elint testing was accomplished, a defective ventral antenna cable was discovered, but due to insufficient time for repairs it was necessary to scratch KMARK-26 "P" which prevented the use of KMARK-8 system. The KMARK-26 "L" system malfunctioned due to the recorder throwing a tape loop when the D. C. was applied.
- (3) Mission 4110 - Due to malfunctioning of the A. C. generator, (or possibly the voltage regulator unit) an excessive voltage was applied to the Elint equipment. This resulted in blown fuses and damaged equipment.

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II. Photographic Equipment

- A. During the period of 2 January 1959 through 29 January 1959, there were a total of twenty nine (29) missions reported flown using photographic equipment. Equipments malfunctioned on seven (7) of these missions giving an overall effectiveness of 75.8%.
- B. Equipment reliability for the above referenced period was:

	<u>A-1 Conf.</u>	<u>A-2 Conf.</u>	<u>B. Conf.</u>	<u>Trackers</u>
Missions flown	1	4	10	29
Malfunctions	0	0	1	6
Per Cent Eff.	100	100	90	79.3

- C. As reported last month, indications are that the tracker malfunctions are due to improper preflight. This has been brought to the attention of P&E with instructions to take the necessary action to correct the condition.
- D. The "B" configuration malfunction occurred on Camera SN-2 when camera was being test flown after installation of a new platen and film drive.

C. F. WELCH
Director of Materiel
DPD-DD/P

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